OIPE

RAW SEQUENCE LISTING   DATE: 04/24/2002
PATENT APPLICATION: US/10/007,270   TIME: 14:07:55

Input Set : A:\20618120US.app
Output Set: N:\CRF3\04242002\J007270.raw

Does Not Comply
Corrected Diskette Needed

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 3 <110> APPLICANT: Hageman, Gregory S.
 4         Kuehn, Markus H.
 5         University of Iowa Research Foundation
 7 <120> TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS FOR OCULAR ABNORMALITIES
 9 <130> FILE REFERENCE: 020618-000120US
11 <140> CURRENT APPLICATION NUMBER: 10/007,270
12 <141> CURRENT FILING DATE: 2001-11-08
14 <150> PRIOR APPLICATION NUMBER: US 09/430,195
15 <151> PRIOR FILING DATE: 1999-10-29
17 <150> PRIOR APPLICATION NUMBER: US 09/183,972
18 <151> PRIOR FILING DATE: 1998-10-29
20 <160> NUMBER OF SEQ ID NOS: 37
22 <170> SOFTWARE: PatentIn Ver. 2.1
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ERRORED SEQUENCES

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2313 <210> SEQ ID NO: 28
2314 <211> LENGTH: 771
2315 <212> TYPE: PRT
2316 <213> ORGANISM: Homo sapiens              2207
2317 <223> OTHER INFORMATION: Human IPM 150 isoform A variant cDNA sequence
2319 <400> SEQUENCE: 28
2320 Met Tyr Leu Glu Thr Arg Arg Ala Ile Phe Val Phe Trp Ile Phe Leu
2321  1               5                  10                  15
2323 Gln Val Gln Gly Thr Lys Asp Ile Ser Ile Asn Ile Tyr His Ser Glu
2324               20                  25                  30
2326 Thr Lys Asp Ile Asp Asn Pro Pro Arg Asn Glu Thr Thr Glu Ser Thr
2327           35                  40                  45
2329 Glu Lys Met Tyr Lys Met Ser Thr Met Arg Arg Ile Phe Asp Leu Ala
2330       50                  55                  60
2332 Lys His Arg Thr Lys Arg Ser Ala Phe Phe Pro Thr Gly Val Lys Val
2333 65                  70                  75                  80
2335 Cys Pro Gln Glu Ser Met Lys Gln Ile Leu Asp Ser Leu Gln Ala Tyr
2336               85                  90                  95
2338 Tyr Arg Leu Arg Val Cys Gln Glu Ala Val Trp Glu Ala Tyr Arg Ile
2339               100                 105                 110
2341 Phe Leu Asp Arg Ile Pro Asp Thr Gly Glu Tyr Gln Asp Trp Val Ser
2342           115                 120                 125
2344 Ile Cys Gln Gln Glu Thr Phe Cys Leu Phe Asp Ile Gly Lys Asn Phe
2345       130                 135                 140
2347 Ser Asn Ser Gln Glu His Leu Asp Leu Leu Gln Gln Arg Ile Lys Gln
2348 145                 150                 155                 160
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RAW SEQUENCE LISTING   DATE: 04/24/2002
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Input Set : A:\20618120US.app
Output Set: N:\CRF3\04242002\J007270.raw

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2350 Arg Ser Phe Pro Asp Arg Lys Asp Glu Ile Ser Ala Glu Lys Thr Leu
2351             165             170             175
2353 Gly Glu Pro Gly Glu Thr Ile Val Ile Ser Thr Asp Val Ala Asn Val
2354             180             185             190
2356 Ser Leu Gly Pro Phe Pro Leu Thr Pro Asp Asp Thr Leu Leu Asn Glu
2357         195             200             205
2359 Ile Leu Asp Asn Thr Leu Asn Asp Thr Lys Met Pro Thr Thr Glu Arg
2360     210             215             220
2362 Glu Thr Glu Phe Ala Val Leu Glu Glu Gln Arg Val Glu Leu Ser Val
2363 225             230             235             240
2365 Ser Leu Val Asn Gln Lys Phe Lys Ala Glu Leu Ala Asp Ser Gln Ser
2366             245             250             255
2368 Pro Tyr Tyr Gln Glu Leu Ala Gly Lys Ser Gln Leu Gln Met Gln Lys
2369             260             265             270
2371 Ile Phe Lys Lys Leu Pro Gly Phe Lys Lys Ile His Val Leu Gly Phe
2372         275             280             285
2374 Arg Pro Lys Lys Glu Lys Asp Gly Ser Ser Ser Thr Glu Met Gln Leu
2375     290             295             300
2377 Thr Ala Ile Phe Lys Arg His Ser Ala Glu Ala Lys Ser Pro Ala Ser
2378 305             310             315             320
2380 Asp Leu Leu Ser Phe Asp Ser Asn Lys Ile Glu Ser Glu Glu Val Tyr
2381             325             330             335
2383 His Gly Thr Met Glu Glu Asp Lys Gln Pro Glu Ile Tyr Leu Thr Ala
2384             340             345             350
2386 Thr Asp Leu Lys Arg Leu Ile Ser Lys Ala Leu Glu Glu Gln Ser
2387         355             360             365
2389 Leu Asp Val Gly Thr Ile Gln Phe Thr Asp Glu Ile Ala Gly Ser Leu
2390     370             375             380
2392 Pro Ala Phe Gly Pro Asp Thr Gln Ser Glu Leu Pro Thr Ser Phe Ala
2393 385             390             395             400
2395 Val Ile Thr Glu Asp Ala Thr Leu Ser Pro Glu Leu Pro Pro Val Glu
2396             405             410             415
2398 Pro Gln Leu Glu Thr Val Asp Gly Ala Glu His Gly Leu Pro Asp Thr
2399             420             425             430
2401 Ser Trp Ser Pro Pro Ala Met Ala Ser Thr Ser Leu Ser Glu Ala Pro
2402         435             440             445
2404 Pro Phe Phe Met Ala Ser Ser Ile Phe Ser Leu Thr Asp Gln Gly Thr
2405     450             455             460
2407 Thr Asp Thr Met Ala Thr Asp Gln Thr Met Leu Val Pro Gly Leu Thr
2408 465             470             475             480
2410 Ile Pro Thr Ser Asp Tyr Ser Ala Ile Ser Gln Leu Ala Leu Gly Ile
2411             485             490             495
2413 Ser His Pro Pro Ala Ser Ser Asp Asp Ser Arg Ser Ser Ala Gly Gly
2414         500             505             510
2416 Glu Asp Met Val Arg His Leu Asp Glu Met Asp Leu Ser Asp Thr Pro
2417         515             520             525
2419 Ala Pro Ser Glu Val Pro Glu Leu Ser Glu Tyr Val Ser Val Pro Asp
2420     530             535             540
2422 His Phe Leu Glu Asp Thr Thr Pro Val Ser Ala Leu Gln Tyr Ile Thr
```

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2423 545                    550                    555                    560
2425 Thr Ser Ser Met Thr Ile Ala Pro Lys Gly Arg Glu Leu Val Val Phe
2426                    565                    570                    575
2428 Phe Ser Leu Arg Val Ala Asn Met Ala Phe Ser Asn Asp Leu Phe Asn
2429              580                    585                    590
2431 Lys Ser Ser Leu Glu Tyr Arg Ala Leu Glu Gln Gln Phe Thr Gln Leu
2432          595                    600                    605
2434 Leu Val Pro Tyr Leu Arg Ser Asn Leu Thr Gly Phe Lys Gln Leu Glu
2435      610                    615                    620
2437 Ile Leu Asn Phe Arg Asn Gly Ser Val Ile Val Asn Ser Lys Met Lys
2438 625                    630                    635                    640
2440 Phe Ala Lys Ser Val Pro Tyr Asn Leu Thr Lys Ala Val His Gly Val
2441              645                    650                    655
2443 Leu Glu Asp Phe Arg Ser Ala Ala Ala Gln Gln Leu His Leu Glu Ile
2444          660                    665                    670
2446 Asp Ser Tyr Ser Leu Asn Ile Glu Pro Ala Asp Gln Ala Asp Pro Cys
2447          675                    680                    685
2449 Lys Phe Leu Ala Cys Gly Glu Phe Ala Gln Cys Val Lys Asn Glu Arg
2450      690                    695                    700
2452 Thr Glu Glu Ala Glu Cys Arg Cys Lys Pro Gly Tyr Asp Ser Gln Gly
2453 705                    710                    715                    720
2455 Ser Leu Asp Gly Leu Glu Pro Gly Leu Cys Gly Leu Ala Gln Arg Asn
2456              725                    730                    735
2458 Ala Arg Ser Ser Arg Glu Arg Glu Leu His Ala Val Pro Asp His Ser
2459          740                    745                    750
2461 Glu Asn Gln Ala Tyr Lys Thr Ser Val Lys Ser Ser Lys Ile Asn Lys
2462          755                    760                    765
2464 Ile Thr Arg
2465      770
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VERIFICATION SUMMARY　　　　　　　　DATE: 04/24/2002
PATENT APPLICATION: US/10/007,270　　TIME: 14:07:57

Input Set : **A:\20618120US.app**
Output Set: **N:\CRF3\04242002\J007270.raw**

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L:474  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:240
L:475  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:300
L:599  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:1560
L:675  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:3300
L:1537 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:112
L:1591 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:400
L:1708 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:2880
L:1742 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:900
L:1752 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:1500
L:1792 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:3900
L:1871 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:304
L:1907 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:496
L:2084 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:2319 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:28
L:2496 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:2511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:2557 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
L:2608 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
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